

## David Murry

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**From:** Charles Maguire  
**Sent:** Friday, September 07, 2012 8:10 AM  
**To:** Don Redmond; David Murry; Lorrie Council  
**Subject:** FW: Some Info for tomorrow

**Categories:** Red Category

fyi

**From:** Stacey Dwyer [<mailto:Dwyer.Stacey@epamail.epa.gov>]  
**Sent:** Thursday, September 06, 2012 1:27 PM  
**To:** Charles Maguire  
**Subject:** Fw: Some Info for tomorrow

FYI,

----- Forwarded by Stacey Dwyer/R6/USEPA/US on 09/06/2012 01:26 PM -----

**From:** Sam Coleman/R6/USEPA/US  
**To:** [hanthony@uraniumenergy.com](mailto:hanthony@uraniumenergy.com)  
**Cc:** "William Honker" <"William Honker" <[honker.William@epa.gov](mailto:honker.William@epa.gov)>, Stacey Dwyer/R6/USEPA/US, Ben Harrison/R6/USEPA/US, "Sam Coleman" <[coleman.sam@epa.gov](mailto:coleman.sam@epa.gov)>  
**Date:** 09/06/2012 01:13 PM  
**Subject:** Some Info for tomorrow

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See below.

### Potential Path Forward on UEC Goliad Aquifer Exemption September 5, 2012

Based on UEC's redrawn map and the groundwater gradients spreadsheet received August 27, 2012, and Sam's conversation with Harry Anthony on August 30.

#### Revised Boundaries

- Aquifer exemption requested for the A Sand only in the Northwest region according to the purple delineation on the redrawn map, and
- Aquifer exemption requested for B/C/D Sands according to the red boundary on the redrawn map.

What is next:

1. UEC will provide EPA with the raw data (ground water elevation values and measurement point locations) used to develop the groundwater gradient information contained in the Gradients.xlsx file received on August 27.
  - Because some of the A Sand is a current drinking water source, the ground water gradient and velocity is important.
  - EPA could evaluate the ground water gradient based on this data and confirm the groundwater gradient and velocity in the A Sand.
2. UEC will address concerns that the southeast fault and unplugged exploration wells may connect the A and B Sands by taking either a or b below:
  - a. UEC will perform a pump test at the Church Well nearest the fault. This could indicate whether there is vertical isolation between the A Sand near the Church Wells and the B Sand.

- Isolation of the B Sand from the A Sand in the area of the Church Wells could demonstrate that the exempted area is not a current drinking water source.
  - Concurrently with the pump test, EPA will review the available UEC documentation of plugged exploration wells.
  - If unplugged exploration wells are identified, UEC will plug those wells within one year of EPA's notification; or
- b. UEC will drill and install a new drinking water well in a hydrologically isolated area to replace the two Church Wells.
- UEC will plug the two existing Church Wells
  - UEC will provide an affidavit certifying that all exploration wells are properly plugged.

Samuel Coleman, P.E.  
Deputy Regional Administrator  
214.665.2100 Ofc.  
214.789.2016 Cell  
[coleman.sam@epa.gov](mailto:coleman.sam@epa.gov)

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